

- - Claims 1 - 115 (canceled) - -

- - 116. (Presently Amended) In combination:

a plaque-~~treating~~ removal instrument for insertion into a vessel through ~~an~~ a low invasive access site and along the vessel to a desired location remote from the access site and having ~~means~~ structure for engaging and removing plaque from the remaining wall of the vessel to thereby treat stenosis at the remote location by removing plaque to ~~enlargeing~~ the size of the flow path comprising the lumen of the vessel;

a hollowing lining comprising a cylindrical wall for contiguous placement against ~~at least~~ ~~some of~~ the treated arterial wall defining the enlarged lumen;

a lining carrier for insertion of the lining through the low invasive access site and along the vessel to the remote ~~treated~~ removal location only after removal of plaque has occurred ~~and~~ , the lining carrier comprising ~~means~~ structure for releasibly holding and selectively deploying the cylindrical wall lining from the carrier into contiguous relation with an ~~the remaining wall~~ interior surface defining the lumen of the vessel to thereby substantially and continuously cover the interior surface so as to alleviate restenosis, the carrier being removed from the vessel via the access site after the lining is deployedment at the remote location. - -

- - 117. (Presently Amended) The combination of Claim 116 wherein the plaque-~~treating~~ removal instrument comprises one or more of the following: ~~a cutting devices including but not limited to which cut, severing, grinding, chipping, abrading, drilling and rotating blade devices, a dissecting ring probe, a prying device, a laser treat device and an ultrasonically treat device.~~ - -

- - 118. (Presently Amended) The combination of Claim 117 wherein the ~~cutting~~ devices which cut comprises ~~one or more of a~~ fixed diameter and ~~an~~ expandable cutters. - -

- - 119. (Presently Amended) The combination of Claim 116 wherein the plaque-~~treating~~ removal instrument comprises one of an endarterectomy instrument by which plaque and arterial wall tissue are removed from the remaining wall of the vessel and an artherectomy instrument by which plaque is removed from the remaining wall of the vessel. - -

- - 120. (Presently Amended) The combination of Claim 117 wherein the ~~dissecting~~ devices comprise rings comprising at least one of a manually manipulatable ring and a dynamic ring. - -

- - 121. (Presently Amended) The combination of Claim 116 wherein the cylindrical wall lining comprises at least one of a generally annularly-extending lining covering at least some of the remaining wall of the vessel, a lining comprising at least some ingrowth material, a Y configuration lining, and a coating. - -

- - 122. (Presently Amended) The combination of Claim 116 further comprising a radially expandable stent comprising spaced windings, the stent being disposed internal of the ~~tubular~~ cylindrical wall lining. - -

- - 123. (Previously Presented) The combination of Claim 116 wherein the lining carrier comprises at least one of a mandrel, a balloon catheter and a clamping device. - -

- - 124. (Presently Amended) The combination of Claim 116 wherein the lining carrier comprising structure ~~means~~ releasibly holding the lining during insertion and placement within the vessel. - -

- - 125. (Presently Amended) The combination of Claim 124 wherein the lining is folded to reduce its initial diameter and wherein the releasibly holding ~~means~~ structure retains the lining in its folded condition during insertion and location of the lining within the vessel. - -

- - 126. (Presently Amended) The combination of Claim 124 wherein the releasible holding structure ~~means~~ comprises at least one of expansion pressure, a clamp, and at least one suture. - -

- - 127. (Presently Amended) The combination of Claim 116 further comprising an occlusion reduction instrument for introduction into the vessel through the access site and comprising ~~means~~ structure for reducing totally or partially occluding plaque within the vessel to accommodate use of the plaque-removal ~~treating~~ instrument. - -

- - 128. (Presently Amended) The combination of Claim ~~116~~ 127 wherein the occlusion reduction instrument comprises at least one of a guidewire, a dynamic wireguide, a dynamic disrupter and a coring catheter. - -

- - 129. (Previously Presented) The combination of Claim 116 further comprising a hollow tube disposed in the access site. - -

- - 130. (Presently Amended) The combination of Claim 129 wherein a the tube comprises at least one of a tube comprising a solid wall and a peel-away sheath. - -

- - 131. (Presently Amended) The combination of Claim 116 further comprising an angioplasty balloon for dilating the plaque within the lumen of the vessel before insertion and use of the plaque-removal ~~treating~~ instrument. - -

- - 132. (Presently Amended) The combination of Claim 116 further comprising structure a ~~lining-securing-means~~ holding the lining securely against the remaining wall of the vessel. - -

- - 133. (Presently Amended) The combination of Claim 132 wherein the ~~lining-securing-means~~ lining holding structure comprises at least one of at least one stent within the lining, at least one suture between the lining and the remaining wall and at least one staple between the lining and the remaining wall. - -

-- 134. (Presently Amended) In combination:

a vessel entry instrument comprising means creating a low invasive ~~an~~ access entry path into a vessel;

a ~~plaque-treating~~ removal instrument for insertion into a vessel through the access entry path and along the vessel to a remote desired location and having ~~means~~ structure for engaging and removing plaque from the interior ~~remaining~~ wall of the vessel to thereby treat stenosis at the remote location by enlarging the size of the flow path comprising the lumen of the vessel;

a hollow lining comprising a continuous cylindrical wall for contiguous placement against and so as to substantially conceal at least a substantial length ~~some of the treated arterial~~ wall defining the enlarged lumen;

a lining carrier for insertion of the lining through the low invasive access entry path and along the vessel to the remote treated location only after removal of plaque and comprising structure ~~means~~ for releasibly holding and selectively deploying the cylindrical wall lining lining into contiguous substantially concealing relation with the ~~remaining wall~~ surface defining the lumen of the vessel to thereby alleviate restenosis, the carrier being removed from the vessel through the low invasive access entry path after lining deployment at the remote location. - -

- - 135. (Previously Presented) The combination of Claim 134 wherein the vessel entry instrument comprises at least one of a needle, a scalpel, a guide wire and a peel away sheath. - -

- - 136. (Presently Amended) The combination of Claim 116 wherein the cylindrical wall lining comprises a cylindrical graft. - -